Eric Qian

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I'm a Computer Engineering student and tinkerer with a background of bringing project concept to reality with full-stack CS projects and hardware designs. I'm seeking to architect solutions that would benefit our community and be a force of change responsible for creating a better tomorrow via my interest in frontend, backend, and embedded systems.

Educa	tion		
California Polytechnic State University - San Luis Obispo Bachelor of Science in Computer Engineering, GPA: 3.53/4.00 Relevant Coursework: Operating Sys., Networks, Object Oriented Design, Data Structures, Micro			San Luis Obispo, CA Expected Graduation: 2023
Teachin	g Assistant: Python Data Structure	(provided office hours, code reviews), EE Lab (prov	
Exper	ence		
System	framework. Created web-based visualization	[Apple Inc.] rk written in Python, increasing speed and coverage and interpretation dashboard to identify Power Ma	anagement System's efficacy and
		ge datasets using NumPy and Plotly, in addition to s sks, system coexistence validation, and board comp	_
Design	Verification Engineer, Intern	[Samsung Semiconductor LLC.]	Q3 2021, Q2 2022
0	Created and maintained randomized UVM test benches written in C++ & SystemVerilog, increasing functional, toggle, and code coverage by over 60%. Built React single-page application with NodeJS backend for dynamic data processing and parsing. Debugged top-level and block-level test bench failures in DUT and worked with system architects to resolve critical design issues.		
	_	ate debug flow for 5 separate data buses using Tcl v	ria Synopsys API.
On-Site	satisfaction rate. Practiced a high Repaired module-level hardware	[Cal Poly, Information Technology Srv.] hnical troubleshooting assistance to hundreds of fa standard of data security and sanitization. failures and software-related issues. Replaced mer for issue prioritization and project tracking.	
Projec	rts		
Trackv	Managed a project team and dev Worked on frontend stack for mo	or an IoT lost and found asset tracking device. reloped backend API written in NodeJS with Express while devices built with React Native. By gration, sourcing proper components, and optimize wia RTC.	-
Full Sta	=	Angular, NodeJS, NoSQL or to websites for Cal Poly IEEE-HKN, BananiumLabsign to full-stack implementation. Includes major re	
Game		script ams, coding immersive and unique game experienc n Major Jam: Isolation competing with 123 projects	

Web Technologies: Javascript, NodeJS, PHP, React, HTML, CSS, jQuery, REST APIs, Cloud Infrastructure, Portainer, Load Balancer Standalone Technologies: Python, C, Java, Linux/Embedded Linux, Tcl, Bash, Unity, Version Control (Git), VSCode, NumPy, Docker Hardware System Design: Eagle, SPICE, Verilog, Cura & Slic3r, STM32Cube/SEGGER Embedded Studio, Verdi, GPU Architecture Organizations: BananiumLabs, Inc. Cal Poly CubeSat Laboratory, IEEE-HKN, Theta Tau, GLAARC VEC